10/828,291

```
=> s alkene?
L2       95199 ALKENE?

=> s olefin?
L3      169040 OLEFIN?

=> s l2 or l3
L4      222390 L2 OR L3

=> s (remov? or separati?
UNMATCHED LEFT PARENTHESIS '(REMOV?'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s (remov? or separati?)
       1201050 REMOV?
        218010 SEPARATI?
L5     1391954 (REMOV? OR SEPARATI?)

=> s (gas stream or effluent?)
       1483163 GAS
        147418 STREAM
         17542 GAS STREAM
                  (GAS(W)STREAM)
        118257 EFFLUENT?
L6      135027 (GAS STREAM OR EFFLUENT?)

=> s absorb?
L7      404886 ABSORB?

=> s adsorb?
L8      322510 ADSORB?

=> s l7 or l8
L9      710211 L7 OR L8

=> s l6 and l9
L10      10347 L6 AND L9

=> s l10 and l5
L11       5927 L10 AND L5

=> s l11 and l4
L12        115 L11 AND L4

=> s cool?
L13     694651 COOL?

=> s compress?
L14     274178 COMPRESS?

=> s l14 or l13
L15     948416 L14 OR L13

=> s l15 and l12
L16         23 L15 AND L12

=> d tot cbib abs
```

2005:1155592   Document No. 143:406268   **Separating** an **olefin**
       from a **gas stream** and part of epoxidation process and
       propene process. Gobbel, Hans-Georg; Schultz, Henning; Schultz, Peter;
       Patrascu, Renate; Schulz, Malte; Weidenbach, Meinolf (Basf
       Aktiengesellschaft, Germany; The Dow Chemical Company). U.S. Pat. Appl.
       Publ. US 2005240038 A1 20051027, 18 pp.   (English). CODEN: USXXCO.
       APPLICATION: US 2004-828291 20040421.
AB   In an **olefin gas stream**, the **gas
       stream** comprising the **olefin** and ≥1 other
       component, the title method comprises (i) **compressing** and
       cooling the **gas stream**, (ii) separating the
       olefin from the **gas stream** by
       absorbing the **olefin** in an **absorbent**, (iii)
       separating the **olefin** from the **absorbent** by desorption,
       where **compressing** or **cooling** or **compressing**
       and **cooling** in (i) is carried out at least twice.

2005:556670   Document No. 143:214117   Process for **olefin**
       removal from refinery gas. Zhao, Lan; Zu, Jun; Zheng, Weiping
       (Beijing New Baron Petrochemical Equipment Inc., Peop. Rep. China).
       Faming Zhuanli Shenqing Gongkai Shuomingshu CN 1544582 A 20041110, No pp.
       given (Chinese). CODEN: CNXXEV. APPLICATION: CN 2010-115033 20031120.
AB   The title process comprises reacting refinery gas with benzene in a
       catalytic reactor, **cooling** the product gas, separating, condensing
       the gaseous fractions, feeding it into a return tank, pumping the
       condensed fractions to a separating tower for return flow, feeding the
       non-condensed gas into refrigerator, feeding the gas phase in an
       absorbing tower, pressurizing the **effluent** from the
       bottom of the separating tower, and feeding into benzene tower, feeding the
       non-condensed gas **cooled** in the separating tower top into absorption
       tower for downward counter current contact with the absorption agent, thus
       absorbing the heavy components therein.

2002:486173   Document No. 137:47604   Adsorptive-extractive process for the
       removal of water and heteroatom-containing compounds from
       hydrocarbons for their purification. Johnson, Marvin M.; Randolph, Bruce

```
=> d his

        (FILE 'HOME' ENTERED AT 13:15:59 ON 13 MAR 2006)

        FILE 'REGISTRY' ENTERED AT 13:16:12 ON 13 MAR 2006
L1           0 S PROPYLLENE OXIDE/CN
L2           1 S PROPYLENE OXIDE/CN
L3           1 S HYDROGEN PEROXIDE/CN

        FILE 'CAPLUS' ENTERED AT 13:17:29 ON 13 MAR 2006
L4      274178 S COMPRESS?
L5       20079 S L3/RCT
L6        3027 S L2/P
L7         205 S L5 AND L6
L8           2 S L4 AND L7
L9      169040 S OLEFIN?
L10      95199 S ALKENE?
L11     222390 S L9 OR L10
L12      78901 S PROPENE?
L13     181177 S PROPYLENE?
L14     236227 S L12 OR L13
L15     414540 S L14 OR L11
L16       6740 S L4 AND L15
L17     441091 S (MULTIPLE OR PLURAL)
L18         54 S L17 (5A) L16
L19         54 S L17 AND L16
L20     279605 S L12 OR L11
L21     694651 S COOL?
L22      20413 S L4 AND L21
L23        426 S L22 AND L20
L24       1256 S COMPRESSIONS
L25          0 S L23 AND L24
L26         10 S COOLING TWICE
L27          0 S L26 AND L23
L28          0 S COOLING MORE THAN ONCE
L29          0 S PLURLA COOLING?
```